IAP6 Rec'd PCT/PTO 02 JUN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: HART et al.

Serial No.: 10/559,758

Art Unit: (not yet assigned)

Filed: December 6, 2005

Entitled: PEPTIDE LIGANDS Examiner: (not yet assigned)

U.S. national phase of PCT/GB2004/002421

Atty. Docket No.: ABL-012.1P US

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Arlington, Virginia 22313-1450

TRANSMITTAL LETTER and PETITION FOR EXTENSION OF TIME

Sir:

Transmitted herewith are: [X] a Response to Notification of Missing Requirements (3 pages), [X] a copy of the Notification of Missing Requirements (2 pages), [X] a Replacement Sequence Listing (23 pages), [X] computer readable form (CRF) with [X] a Statement under 37 CFR 1.821-1825 (2 pages), [X] Copies of an already filed executed Combined Declaration Power of Attorney, second PTO Form 1390, date-stamped postcard, and transmittal (8 pages), [X] a Check for \$60.00 (check no. 6976), and [X] a Return Receipt post card, for filing in the above-identified patent application.

FEE FOR ADDITIONAL CLAIMS

[X] A fee for additional claims is not required.

[] A fee for additional claims is required. The additional fee has been calculated as shown below:

	CLAIMS	HIGHEST	NUMBER OF		
	REMAINING	NUMBER	EXCESS	RATE	FEES DUE
	AFTER	PREVIOUSLY	CLAIMS	(small]
	AMENDMENT	PAID FOR		entity)	
TOTAL CLAIMS			0	× \$25	= 0.00
INDEPENDENT			0	× \$100	= 0.00
FIRST INTRODUCTION OF MULTIPLE DEPENDENT CLAIM + \$180					= 0.00
TOTAL FEES DUE					= 0.00

[X] Small entity status has already been established for Applicant(s) in this case.

06/07/2006 MKAYPAGH 00000110 10559758

01 FC:2251

60.00 DP

<u>PAYM</u>	IENT OF ADDITIONAL FEES
[]	A check in the amount of \$ in payment of the fee for filing an oath or declaration under 37 CFR §1.16(e) is transmitted herewith.
[X]	The Commissioner is hereby authorized to charge payment of any additional fees required under 37 CFR §1.16 or §1.17 in connection with the paper(s) transmitted herewith, or to credit any overpayment of same to Deposit Account No. 50-0268. A duplicate copy of this transmittal letter is transmitted herewith.
PETIT	TION FOR EXTENSION OF TIME
[X]	Extension is requested under 37 CFR 1.136(a), and the following extension fee is applicable for the paper(s) filed herewith: [X] \$60.00 for response within first month pursuant to 37 CFR 1.17(a)(1); [] \$225.00 for response within second month pursuant to 37 CFR 1.17(a)(2); [] \$510.00 for response within third month pursuant to 37 CFR 1.17(a)(3); [] \$795.00 for response within fourth month pursuant to 37 CFR 1.17(a)(4); [] \$1080.00 for response within fifth month pursuant to 37 CFR 1.17(a)(5);
[X]	A check including the amount of \$60.00 in payment of the extension fee is transmitted herewith. (check no. 6976)
[X]	The Commissioner is hereby authorized to charge payment of any additional fees required in connection with the paper(s) transmitted herewith, or to credit any overpayment of same, to Deposit Account No. 50-0268. A duplicate of this transmittal letter is transmitted herewith.
	Leon R. Yankwich, Reg. No. 30,237 David G. O'Brien, Reg. No. 46,125 Attorney for Applicants YANKWICH & ASSOCIATES, P.C. 201 Broadway Cambridge, Massachusetts 02139 telephone: (617) 374-3700 telefax: (617) 374-0055
	CERTIFICATE OF MAILING
The un	dersigned hereby certifies that this correspondence and accompanying documents are being deposited with
i me uli	dersigned hereby certifies that this correspondence and accompanying documents are being deposited with

May 30, 2006

date of mailing and signature

Nasim G. Memon

Commissioner for Patents, P.O. Box 1450, Arlington, Virginia 22313-1450 on the date indicated

the U.S. Postal Service as First Class Mail, postage, prepaid, in an envelope addressed to: Mail Stop PCT,

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: (not yet assigned)

Examiner: (not yet assigned)

In re Application of: HART et al.

Serial No.: 10/559,758

Filed: December 6, 2005

Entitled: PEPTIDE LIGANDS

U.S. national phase of PCT/GB2004/002421 Attorney Docket No.: ABL-012.1P US

Mail Stop PCT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. § 371

Sir:

In response to a Notification of Missing Requirements mailed on March 10, 2006 and to complete the requirements for acceptance under 35 U.S.C. § 371, Applicants submit herewith a replacement Sequence Listing paper copy and CRF in compliance with 37 CFR §§1.821 et seq. and a copy of the earlier filed executed Declaration/Power of Attorney. This paper is accompanied by a copy of the Notification of Missing Requirements and a petition and fee for a one-month extension of time. Any additional fees deemed to be required to complete the filing formalities under 35 U.S.C. § 371 may be charged to USPTO Deposit Account No. 50-0268.

REPLACEMENT SEQUENCE LISTING AND COMPUTER READABLE FORM

In the Notification mailed March 10, 2006, Applicants were required to provide a replacement Sequence Listing which corrected errors set forth in a Raw Sequence Listing Error Report that accomanied the Notification. Specifically, the entry "peptide ligand" in field <223> was deemed not to conform to §1.823 in that the source of the genetic material was not sufficiently explained.

Applicants point out that no genetic material is set forth in the Sequence Listing. Rather, all the sequences set forth in the Sequence Listing are synthetic polypeptides which have binding properties of interest. Applicants have prepared a replacement Sequence Listing paper copy and computer readable

Appln. Ser. No. 10/559,758 Atty. Docket: ABL-012.1P US

form on diskette in which the value in field <223> provided in connection with each sequence has been changed to be more descriptive of the polypeptide sequence listed. It is submitted that the replacement Sequence Listing filed herewith conforms to the regulations set forth in 37 CFR §§1.821 et seq., and accordingly entry of the replacement Sequence Listing in satisfaction of the remaining formal requirements for entry into the national phasae is requested.

The specific sequences of SEQ ID NOS: 1-50 in the replacement Sequence Listing sheets 1-23 are identical to those in the originally filed Sequence Listing and no sequence information has been changed. Thus, no new matter has been added to the Sequence Listing, and the Sequence Listing provided herewith does not go beyond the disclosure of the originally filed application. Additionally, the Sequence Listing paper copy and the CRF submitted herewith are identical in content.

COPY OF EXECUTED DECLARATION/POWER OF ATTORNEY

The Notification of March 10, 2006 further required Applicants to submit an executed inventors' declaration. Such executed inventors' declaration was previously filed as a second submission under 35 U.S.C. § 371 on March 3, 2006. Evidently this submission had not become part of Applicants' file prior to the mailing of the Notification. Applicants submit herewith a copy of the executed Declaration/Power of Attorney as filed on March 3, 2006.

All formal requirements for national phase entry are believed to have been met by Applicants, and therefore issuance of an official filing receipt is respectfully requested.

Respectfully submitted,

Leon R. Yankwich, Reg. No. 30,237 David G. O'Brien, Reg. No. 46,125

Attorney(s) for Applicants

Yankwich & Associates, P.C.

201 Broadway

Cambridge, MA 02139 telephone: (617) 374-3700 telefax: (617) 374-0055

Appln. Ser. No. 10/559,758 Atty. Docket: ABL-012.1P US

CERTIFICATE OF MAILING

The undersigned hereby certifies that this correspondence and accompanying documents are being deposited with the U.S. Postal Service as First Class Mail, in an envelope addressed to **Mail Stop PCT**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

1 pd 3013000

Date of mailing and signature

Nasim G. Memon



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addres: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Viginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO.

10/559,758

Stephen L Hart

ABL-012.1P US

INTERNATIONAL APPLICATION NO.

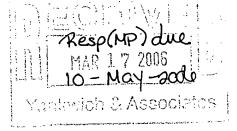
PCT/GB04/02421

I.A. FILING DATE

06/07/2004

PRIORITY DATE 06/06/2003

Leon R Yankwich Yankwich & Associates 201 Broadway Cambridge, MA 02139



CONFIRMATION NO. 1570 371 FORMALITIES LETTER *OC000000018213066*

Date Mailed: 03/10/2006

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 12/06/2005
- Copy of the International Search Report filed on 12/06/2005
- Copy of IPE Report filed on 12/06/2005
- Preliminary Amendments filed on 12/06/2005
- Biochemical Sequence Diskette filed on 12/06/2005
- Oath or Declaration filed on 12/06/2005
- Biochemical Sequence Listing filed on 12/06/2005
- Request for Immediate Examination filed on 12/06/2005
- U.S. Basic National Fees filed on 12/06/2005
- Priority Documents filed on 12/06/2005
- Specification filed on 12/06/2005
- Claims filed on 12/06/2005
- Drawings filed on 12/06/2005
- Paper nucleotide sequence listings filed on 12/06/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
 - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.

To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath
or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27,
must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

- \$65 Surcharge.
 - A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of
 the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as
 indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a
 substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content
 of the sequence listing information recorded in computer readable form is identical to the written (on paper
 or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR
 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.		
10/559,758	PCT/GB04/02421	ABL-012 1P US		

PATENT COOPERATION TREATY IN THE UNITED STATES DESIGNATED/ELECTED OFFICE

Application of: HART et al.

Serial No.: 10/559,758 Art Unit: (not yet assigned)

Filed: December 6, 2005 Examiner: (not yet assigned)

Entitled: PEPTIDE LIGANDS

U.S. national phase of Int'l Appln. PCT/GB2004/002421 filed June 7, 2004, designating the U.S.

Atty. Docket No.: ABL-012.1P US

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL

1. Designated/Elected Office (DO/EO/US) Transmittal Form PTO-1390 (3 pages);

2. Duplicate copies Transmittal Form PTO-1390 pages 2 and 3 - fee calculation/authorization;

3. Executed Oath/Declaration and Power of Attorney (3 pages);

4. Return Receipt Postcard.

Respectfully submitted,

Leon R. Yankwich, Reg. No. 30,237 David G. O'Brien, Reg. No. 46,125

Attorneys for Applicants

YANKWICH & ASSOCIATES, P.C.

201 Broadway

Cambridge, Massachusetts 02139

telephone: 617-374-3700 telecopier: 617-374-0055

CERTIFICATE OF MAILING

The undersigned hereby certifies that this correspondence and additional papers listed above are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

March 1, 2006 Date

Nasim G. Memon

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES			ATTORNEY'S DOCKET NUMBER ABL-012.1P US		
DESIGNATED/ELECTED OFFICE (DO/EO/US)			U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE			10/559,758		
INTERN	PCT/GB2004/002421	INTERNATIONAL FILING DATE June 7, 2004	PRIORITY DATE CLAIMED June 6, 2003		
TITLE O	FINVENTION	PEPTIDE LIGANDS			
APPLIC	ANT(S) FOR DO/EO/US				
Applica	nt herewith submits to the United Sta	Stephen L. HART; Michele WRIT			
	Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
1. U		ncerning a submission under 35 U.S.C. 371			
2. 🗶	This is a SECOND or SUBSEQUENT s	ubmission of items concerning a submission	n under 35 U.S.C. 371.		
3	This is an express request to begin nation (5), (6), (9) and (21) indicated below.	onal examination procedures (35 U.S.C. 37	1(f)). The submission must include items		
4.	The US has been elected (Article 31).				
5.	A copy of the International Application	as filed (35 U.S.C. 371(c)(2))			
	a. is attached hereto (required	only if not communicated by the Internation	al Bureau).		
	b. has been communicated by	the International Bureau.			
	c. is not required, as the applic	ation was filed in the United States Receiving	ng Office (RO/US).		
6.	An English language translation of the	International Application as filed (35 U.S.C	. 371(c)(2)).		
	a. is attached hereto.				
_	b. has been previously submitt	ed under 35 U.S.C. 154(d)(4).			
7.	Amendments to the claims of the Inter	national Application under PCT Article 19 (3	35 U.S.C. 371(c)(3))		
	a. are attached hereto (require	ed only if not communicated by the Internati	ional Bureau).		
	b. have been communicated by	by the International Bureau.			
	c. have not been made; howe	ver, the time limit for making such amendme	ents has NOT expired.		
	d. have not been made and will not be made.				
8. 📙	An English language translation of the	amendments to the claims under PCT Artic	cle 19 (35 U.S.C. 371(c)(3)).		
9. ×	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Executed)				
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).					
Items 11 to 20 below concern document(s) or information included:					
11. 🔲	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.				
12. 🔲	2. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.				
13.	3. A preliminary amendment.				
14.	An Application Data Sheet under 37 CFR 1.76.				
15. \square	A substitute specification.				
16. 🗷	A power of attorney and/or change of address letter. (Executed)				
17. 🔲	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.				
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).				
19. 🔲	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

PTO-1390 (Rev. 07-2005)
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U.S. APPLICA	PLICATION NO. (if known, see 37 CFR 1.5) 10/559,758 INTERNATIONAL APPLICATION NO. PCT/GB2004/002421		ATTORNEY'S DOCKET NUMBER ABL-012.1P US			
20. Othe	er items or informa	tion:				
The fo	llowing fees have	been submitted			CALCULATIONS	PTO USE ONLY
ł —				\$300	\$	
22. Exa	mination fee (37 C	FR 1.492(c))		<u></u>		
by IPEA	/US indicates all c	laims satisfy prov	rnational preliminary examina risions of PCT Article 33(1)-(4)	\$0	\$	
If the written oping IPEA/US Search fee (37 Contents International Search previous)	S indicates all clair CFR 1.445(a)(2)) h onal Searching Au arch Report prepar y communicated to	or the Internation one satisfy provision cas been paid on othority red by an ISA oth othe US by the If	nal preliminary examination re ons of PCT Article 33(1)-(4) the international application to er than the US and provided to 3		\$	
	TOTAL OF 21, 2					
sequence electronic	e listing in complia c medium) (37 CF	ance with 37 CFR R 1.492(j)).	d in paper over 100 sheets (e 1.821(c) or (e) or computer p s of paper or fraction thereof.	rogram listing in an		
Total Sheets	Extra Sheets	Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)		<u> </u> -		
- 100 =	/50 =			x \$250	\$	
Surcharge of \$13 after the date of c	0.00 for furnishing commencement of	any of the searc the national stag	h fee, examination fee, or the e (37 CFR 1.492(h)).	oath or declaration	\$ 130.00	
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims		- 20 =	11	× \$ 50	\$	
Independent clain		6 -3=	3	x \$200	\$	
MULTIPLE DEPE	NDENT CLAIM(S) (if applicable)	TOTAL OF A DOLLE	+ \$360	\$ 420.00	
x Applicant clai	ms small entity st	atus. See 37 CFF	TOTAL OF ABOVE 1.27. Fees above are reduced		\$ 130.00	
				SUBTOTAL =	\$ 65.00	
Processing fee of claimed priority da			translation later than 30 month		\$	
		<u>, , , , , , , , , , , , , , , , , , , </u>	TOTAL	NATIONAL FEE =	\$ 65.00	
			1.21(h)). The assignment mus 40.00 per property	t be accompanied +	\$ 0	
			TOTAL FE	ES ENCLOSED =	\$ 65.00	
					Amount to be refunded:	\$
					Amount to be charged	\$ 65.00

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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i				
a. 🔲 A	A check in the amount of \$ to cover the above fees is enclosed.			
	Please charge my Deposit Account No. 50-0268 in the amount of \$ 65.00 to cover the above fees. A duplicate copy of this sheet is enclosed.			
c. 🗷 Th	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-0268</u> . A duplicate copy of this sheet is enclosed.			
d. Fe	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				
OFAID ALL	CORDICIDANDENOS TO			
	CORRESPONDENCE TO:			
Leon R. Yankwich, Esq.		SIGNATURE		
YANKWICH & ASSOCIATES, P.C.		David G. O'Brien		
201 Broadway		NAME		
Cambridge, MA 02139		46,125 REGISTRATION NUMBER		
Cambin	ugo, 11.11 (02 100)	REGISTRATION NUMBER		
	•	March 1, 2006		

Case No. ABL-012.1P US Applicant(s): HART et al. Serial No. <u>10/559,758</u>

Return of this post card, properly stamped, will signify safe receipt in the US Patent & Trademark Office of the following:

- Form PTO-1390 Transmittal Letter (3 pages)
- ☑ Fee transmittal copies of pages 2 and 3
- ☑ Transmittal (1 page)
- Executed Combined Declaration/Power of Attorney (3 Pages)

Filed via First Class Mail on March 1, 2006

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MAR Recdectifito 03 MAR 2006

Case No. ABL-012.1P US Applicant(s): HART et al Serial No. <u>10/559,758</u>

Return of this post card, properly stamped, will signify safe receipt in the US Patent & Trademark Office of the following:

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